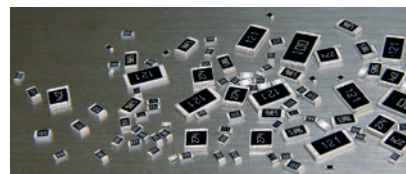
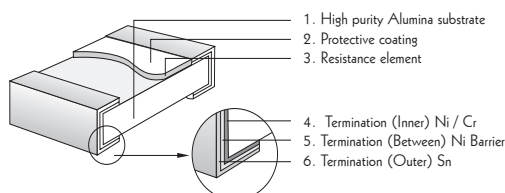
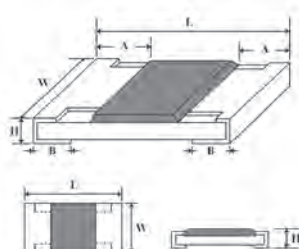


Feature

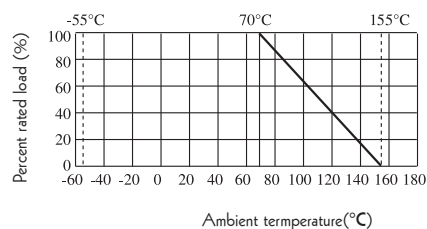
- Small size & light weight
- Reduction of assembly costs and matching with placement machine
- Suitable for both flow & re-flow soldering
- Applications: Navigator (GPS), Mobile Phone, Telecom, PDA, Setbox, Meter.



Figures



Derating Curve & Specification



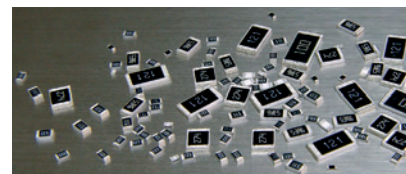
Type	0201	0402	0603	0805	1206	1210	2010	2512
Max. Working Voltage	25V	50V	50V	150V	200V	200V	200V	200V
Max. Overload Voltage	50V	100V	100V	300V	400V	400V	400V	400V
Dielectric withstanding Voltage	-	100V	300V	500V	500V	500V	500V	500V
Operating Temperature	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C

Type	0201	0402	0603	0805	1206	1210	2010	2512
Power Rating at 70°C	1/20W	1/16W	1/16W (1/10W-S)	1/10W (1/8W-S)	1/8W (1/4W-S)	1/4W (1/3W-S) *	1/2W (3/4W-S)	1W
Dimension	L (mm)	0.60 ± 0.03	1.00 ± 0.10	1.60 ± 0.10	2.00 ± 0.15	3.10 ± 0.15	5.00 ± 0.10	6.35 ± 0.10
	W (mm)	0.30 ± 0.03	0.50 ± 0.05	0.80 ^{+0.15} _{-0.10}	1.25 ^{+0.15} _{-0.10}	1.55 ^{+0.15} _{-0.10}	2.60 ^{+0.15} _{-0.10}	3.20 ^{+0.15} _{-0.10}
	H (mm)	0.23 ± 0.03	0.35 ± 0.05	0.45 ± 0.10	0.55 ± 0.10	0.55 ± 0.10	0.55 ± 0.10	0.55 ± 0.10
	A (mm)	0.10 ± 0.05	0.20 ± 0.10	0.30 ± 0.20	0.40 ± 0.20	0.45 ± 0.20	0.50 ± 0.25	0.60 ± 0.25
	B (mm)	0.15 ± 0.05	0.25 ± 0.10	0.30 ± 0.20	0.40 ± 0.20	0.45 ± 0.20	0.50 ± 0.20	0.50 ± 0.20
Resistance Value of Jumper	<50mΩ	<50mΩ	<50mΩ	<50mΩ	<50mΩ	<50mΩ	<50mΩ	<50mΩ
Rated Current of Jumper	0.5A	1A	1A	2A	2A	2A	2A	2A
Max. Current of Jumper	1A	2A	2A	5A	10A	10A	10A	10A
Resistance Range of 0.5% (E-96)	10Ω ~ 1MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ
Resistance Range of 1% (E-96)	10Ω ~ 1MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ
Resistance Range of 2% (E-24)	10Ω ~ 1MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ
Resistance Range of 5% (E-24)	1Ω ~ 1MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ

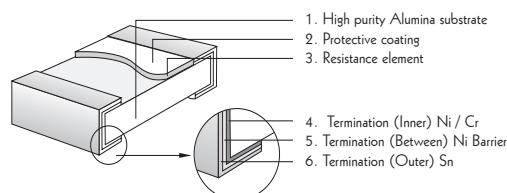
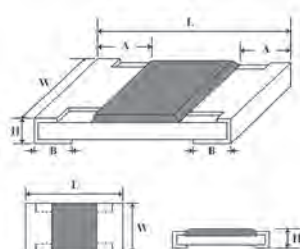
* 1210 size in 1/2W could be provided specially (1210U2)

Feature

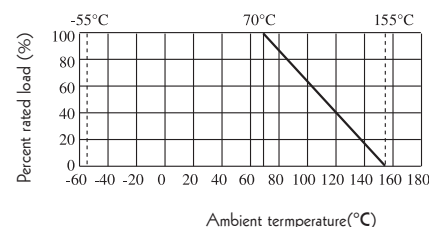
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Figures



Derating Curve & Specification



Type	0201	0402	0603	0805	1206	1210	2010	2512
Max. Working Voltage	25V	50V	50V	150V	200V	200V	200V	200V
Max. Overload Voltage	50V	100V	100V	300V	400V	400V	400V	400V
Dielectric withstanding Voltage	-	100V	300V	500V	500V	500V	500V	500V
Operating Temperature	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C	-55~+155°C

Type	0201	0402	0603	0805	1206	1210	2010	2512
Power Rating at 70°C	1/20W	1/16W	1/16W (1/10W-S)	1/10W (1/8W-S)	1/8W (1/4W-S)	1/4W (1/3W-S) *	1/2W (3/4W-S)	1W
Dimension	L (mm)	0.60 ± 0.03	1.00 ± 0.10	1.60 ± 0.10	2.00 ± 0.15	3.10 ± 0.15	5.00 ± 0.10	6.35 ± 0.10
	W (mm)	0.30 ± 0.03	0.50 ± 0.05	0.80 ^{+0.15} _{-0.10}	1.25 ^{+0.15} _{-0.10}	1.55 ^{+0.15} _{-0.10}	2.60 ^{+0.15} _{-0.10}	3.20 ^{+0.15} _{-0.10}
	H (mm)	0.23 ± 0.03	0.35 ± 0.05	0.45 ± 0.10	0.55 ± 0.10	0.55 ± 0.10	0.55 ± 0.10	0.55 ± 0.10
	A (mm)	0.10 ± 0.05	0.20 ± 0.10	0.30 ± 0.20	0.40 ± 0.20	0.45 ± 0.20	0.50 ± 0.25	0.60 ± 0.25
	B (mm)	0.15 ± 0.05	0.25 ± 0.10	0.30 ± 0.20	0.40 ± 0.20	0.45 ± 0.20	0.50 ± 0.20	0.50 ± 0.20
Resistance Value of Jumper	<50mΩ	<50mΩ	<50mΩ	<50mΩ	<50mΩ	<50mΩ	<50mΩ	<50mΩ
Rated Current of Jumper	0.5A	1A	1A	2A	2A	2A	2A	2A
Max. Current of Jumper	1A	2A	2A	5A	10A	10A	10A	10A
Resistance Range of 0.5% (E-96)	10Ω ~ 1MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ
Resistance Range of 1% (E-96)	10Ω ~ 1MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ
Resistance Range of 2% (E-24)	10Ω ~ 1MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ
Resistance Range of 5% (E-24)	1Ω ~ 1MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ	1Ω ~ 10MΩ

* 1210 size in 1/2W could be provided specially (1210U2)

Performance Specifications

Temperature coefficient	1Ω~10Ω ≤ ±400PPM/°C 11Ω~100Ω ≤ ±200PPM/°C >100Ω ±100PPM/°C (0201: >100Ω ±200PPM/°C)
Short-time overload	±5%, ± 2%: ±(2.0% + 0.1Ω) Max. ±1%, ± 0.5%: ±(1.0% + 0.1Ω) Max.
Insulation resistance	≥ 1,000 Mega Ohm
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown
Terminal bending	±(1.0% + 0.05Ω) Max.
Soldering heat	±(1.0% + 0.05Ω) Max.
Solderability	Min. 95% coverage
Temperature cycling	±5%, ± 2%: ±(1.0% + 0.05Ω) Max. ±1%, ± 0.5%: ±(0.5% + 0.05Ω) Max.
Humidity (Steady State)	±5%, ± 2%: ±(3.0% + 0.1Ω) Max. ±1%, ± 0.5%: ±(0.5% + 0.1Ω) Max.
Load life in humidity	±5%, ± 2%: ±(3.0% + 0.1Ω) Max. ±1%, ± 0.5%: ±(1.0% + 0.1Ω) Max.
Load life	±5%, ± 2%: ±(3.0% + 0.1Ω) Max. ±1%, ± 0.5%: ±(1.0% + 0.1Ω) Max.

Ordering Procedure (Example: 1206 1/4W-S 5% 1.2 Ω T/R-5000)

- The values which are not of standard E-24 series (2% & 5%) and not of E-96 series (1%) could be offered on a case to case basis.

